

INTERNATIONAL SEARCH REPORT

GB2004/003553

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B24B9/14 B28D1/14 B24B13/00 B24B13/005 B23Q1/52

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B24B B28D B23Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 572 451 B1 (FUJITA HAKARU ET AL) 3 June 2003 (2003-06-03)	1,2,5,7, 9
Y	column 1, line 45 - column 4, line 18 column 4, line 63 - column 5, line 12 column 7, line 45 - column 8, line 20 column 9, line 6 - line 13 column 10, line 15 - line 41 figures 2-4,7	6
X	US 2002/006764 A1 (DIEHL JOACHIM ET AL) 17 January 2002 (2002-01-17) paragraphs '0001!, '0002!, '0004! - '0010!, '0012!, '0013!, '0015!, '0017!, '0025! - '0032!, '0038! figures 1,2,6 ----- -/--	1,3,4,10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

22 October 2004

Date of mailing of the international search report

28/10/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	GB 1 208 943 A (TEXTRON INC) 14 October 1970 (1970-10-14) page 8, line 11 - page 9, line 28 figure 14	6
A	----- EP 1 238 731 A (HOYA CORP) 11 September 2002 (2002-09-11) figure 2	1-10
A	----- EP 1 310 327 A (NIDEK KK) 14 May 2003 (2003-05-14) the whole document -----	1-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

GB2004/003553

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 6572451	B1	03-06-2003	JP	2002014303 A	18-01-2002
			JP	2002196289 A	12-07-2002
			AU	9594501 A	29-04-2002
			EP	1332819 A1	06-08-2003
			WO	0232604 A1	25-04-2002
			TW	527494 B	11-04-2003
			AU	4881001 A	07-11-2001
			CN	1395696 T	05-02-2003
			EP	1278095 A1	22-01-2003
			WO	0181983 A1	01-11-2001
			US	2002135732 A1	26-09-2002
US 2002006764	A1	17-01-2002	DE	10029967 A1	17-01-2002
GB 1208943	A	14-10-1970	DE	1752002 A1	12-08-1971
			FR	1558888 A	28-02-1969
			GB	1208944 A	14-10-1970
			GB	1208945 A	14-10-1970
			GB	1208946 A	14-10-1970
			US	3448549 A	10-06-1969
			US	3522677 A	04-08-1970
			US	3624976 A	07-12-1971
EP 1238731	A	11-09-2002	JP	3358656 B2	24-12-2002
			JP	2001121330 A	08-05-2001
			AU	7949000 A	30-04-2001
			EP	1238731 A1	11-09-2002
			US	6561738 B1	13-05-2003
			CN	1382077 T	27-11-2002
			WO	0128720 A1	26-04-2001
			TW	482703 B	11-04-2002
EP 1310327	A	14-05-2003	JP	2003145328 A	20-05-2003
			EP	1310327 A2	14-05-2003
			US	2003087584 A1	08-05-2003